

## MATERIAL SAFETY DATA SHEET

According to Regulation (EC) 1907/2006 (REACH)

Trade name: Plectrum

Version: 1.1 /EN

Date of impression: 2017-06-29

Date of revision: 2017-06-29

Page 1 of 9

### Section 1: Identification of the substance/preparation and of the company/undertaking

- |   |   |
|---|---|
| <b>1.1 Identification on the label/<br/>trade name:</b> | PLECTRUM<br>MAPP NUMBER:18317 (2 x 10 l bundle)   |
| <b>1.2 Use of the substance/<br/>preparation:</b>       | Growth regulator  |
| <b>1.3 Company/undertaking</b>                          | Gemini Agriculture Ltd  |
| <b>Identification:</b>                                  | 71-75 Shelton Street<br><br>Covent Garden<br><br>London<br><br>WC2H 9JQ<br><br><a href="mailto:sales@geminiag.com">sales@geminiag.com</a> |
| <b>1.4 Emergency phone (24 hours):</b>                  | +44 20 3011 5515  |

### Section 2: Hazards identification

#### 2.1 Hazards description:

Classified as hazardous according to the criteria of regulation (EC) No 1272/2008 [CLP]

##### 2.1.1 Classification according to regulation (EC) No 1272/2008 [CLP]:

Acute toxicity oral, cat. 4

H302 Harmful if swallowed.

Hazards for the environment:

Keeping to the disposal (see section 13) and the national and local regulations, the product is no particular risk to the environment.

## 2.2 Label:

Identification according to regulation (EC) No 1272/2008 [CLP]:

Product-ID: Name of the substance/preparation: PLECTRUM



GHS 05

GHS 07

GHS 09

**Signal word:**WARNING

- H290** May be corrosive to metals.
- H302** Harmful if swallowed.
- H312** Harmful in contact with skin.
- H411** Toxic to aquatic life with long lasting effects.
- P280** Wear Protective clothing/gloves.
- P301+P312** IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
- P302+352** IF ON SKIN: wash with plenty of soap and water.
- P361** Remove/Take off immediately all contaminated clothing.
- P363** Wash contaminated clothing before reuse.
- P390** Absorb spillage to prevent material damage.
- P501** Dispose of contents/ container to a licensed hazardous-waste disposal contractor or collection site except for empty, clean containers which can be disposed of as non-hazardous waste.
- EUH401** To avoid risk to man and environment, comply with the instructions for use.
- SPe1** Do not contaminate water with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

## 2.3 Other hazards:

None applicable

### Section 3: Composition/information on ingredients

#### 3.1 Hazard ingredients:

Chemical name	Concentration % weight (w) % vol. (v)	CAS-no.	EINECS-no.	Hazard category	Hazard statements
Chlormequat-chlorid	63,2	999-81-5	213-666-4	Acute toxic oral, cat. 4	H302
				Acute toxic dermal, cat. 4	H312

#### 3.2 Remark:

Hazard statements to quote in full: see section 16.

### Section 4: First aid measures

#### 4.1 General information:

Never give fluids or induce vomiting if patient is unconscious or is having convulsions.

#### 4.2 In case of inhalation:

Remove to fresh air. Consult a physician

#### 4.3 In case of skin contact:

Take off immediately all contaminated clothing. Wash skin immediately with water, followed by soap and water. Such prompt action is essential so as to minimize skin contact. Contaminated clothing must be thoroughly washed before re-use. Consult a physician if irritation persists.

#### 4.4 In case of eye contact:

Flush eyes thoroughly with water for several minutes. Remove contact lenses after initial 1-2 minutes and continue flushing for several additional minutes. Consult a physician, preferably an ophthalmologist.

#### 4.5 In case of ingestion:

DO NOT induce vomiting. If swallowed, seek medical advice immediately and show the container, label or this data sheet if possible.

#### 4.6 Self-protection of the first aider:

Self-protection when giving first aid instructions. Only one's own safety is guaranteed, life-saving emergency measures are taken. Following the chain of survival is the emergency call. Until the arrival of the ambulance service first responder should take further measures. These include, for example, the additional supply and also the psychological care of victims.

#### 4.7 Note to physician:

Supportive care. Treatment based on judgement of physician in response to symptoms of patient.

## **Section 5: Fire-fighting measures**

### **5.1 Suitable extinguishing media:**

Carbon dioxide (CO<sub>2</sub>), water fog or fine spray, dry chemical powder, foam

### **5.2 Extinguishing media which must not be used for safety reasons:**

Full water jet

### **5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases:**

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/ or irritating. Combustion products include: Carbon oxides. Hydrogen chloride. Nitrogen oxides.

### **5.4 Special protective equipment for fire-fighters:**

Wear protective clothing and use self-contained breathing apparatus.

## **Section 6: Accidental release measures**

### **6.1 Operator protection:**

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective clothing.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) AND SUITABLE PROTECTIVE GLOVES when handling the concentrate or handling contaminated surfaces.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS) during application.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WASH CONCENTRATE from skin or eyes immediately.

DO NOT BREATHE SPRAY.

WASH HANDS AND EXPOSED SKIN before meals and after work.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

IF YOU FEEL UNWELL, seek medical advice (show label where possible).

### **6.2 Environmental protection:**

DO NOT CONTAMINATE WATER WITH THE PRODUCT OR ITS CONTAINER. Do not clean application equipment near surface water.

Avoid contamination via drains from farmyards and roads.

### **6.3 Methods for cleaning up:**

Soak up with sand or other non-combustible absorbent material and place into containers for disposal.

For large spills, barricade area and consult manufacturer. If further assistance is required, telephone the emergency contact number.

#### **6.4 Additional information:**

Information to safety handling, see section 7.

Information to personal protection equipment, see section 8.

Information to disposal considerations, see section 13.

## **Section 7: Handling and storage**

### **7.1 Handling**

Use good personal hygiene. Do not consume or store food in the work area. Wash hands and exposed skin before eating, drinking or smoking and after work.

### **7.2 Storage**

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP OUT OF REACH OF CHILDREN.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

Keep dry and frost-proof in a suitable pesticide store.

## **Section 8: Exposure controls / Personal protection**

### **8.1 Exposure limit values:**

#### **8.1.1 Occupational exposure limits:**

No data available

#### **8.1.2 Additional exposure limits:**

Not determined

#### **8.1.3 DNEL/DMEL and PNEC-data:**

Not available

### **8.2 Exposure controls**

#### **8.2.1 Personal protection equipment:**

Respiratory protection

Not necessary

Eye protection:

Suitable sealing safety goggles to EN166.

Hand/Body protection:

Suitable chemical resistant safety gloves to EN374 (e.g. Nitrile). Suitable protective clothing (eg overalls) heavy duty cotton or synthetic fabric. Rubber apron, work shoes or boots. After work wash thoroughly (shower, wash / bathe, wash hair). Change clothes. Clean all protective equipment thoroughly. Clean contaminated equipment / items thoroughly with soap or soda solution.

#### **8.2.2 Environmental exposure controls:**

Technical measures to prevent contamination of the environment meet, particularly in relation to the waste water.

## **Section 9: Physical and chemical properties**

## 9.1 General information:

Appearance:	liquid
Colour:	colourless to light yellow
Odour:	characteristic for short-chain amines

## 9.2 Important health, safety and environmental information

### 9.2.1 Safety relevant basic data:

pH:	5.8
Melting point/range [°C]:	No data available
Boiling point/range [°C]:	No data available
Flash point [°C]:	not applicable
Density [g/cm <sup>3</sup> ] at 20° C:	1.14 g/cm <sup>3</sup>
Water solubility:	dispersible
Viscosity [mPa s] at 20° C:	13.9 mPa.s
Explosiveness:	non explosive
Oxidation:	No data available

### 9.3 Other information:

Surface tension at 20° C:	71,9 mN/m (0,5% (V))
Surface tension at 40° C:	No data available

## Section 10: Stability and reactivity

### 10.1 Conditions to avoid:

Protect from frost and moisture. Stable under normal storage conditions.

### 10.2 Materials to avoid:

Bases

### 10.3 Hazardous decomposition products:

None under normal conditions of storage and use.

### 10.4 Hazardous reactions

Corrodes aluminium.

## Section 11: Toxicological information

### 11.1 Information to toxicological effects

#### 11.1.1 Acute oral toxicity:

LD50 (rat) 1100 mg/kg

#### 11.1.2 Acute dermal toxicity:

LD50 (rat) > 5000 mg/kg

#### 11.1.3 Acute inhalative toxicity:

LC50 (rat) > 8.9 mg/l, 4 h

**11.1.4 Sensitisation:**

Not sensitizing / guinea pig)

**11.1.5 Irritation:**

Not irritant (rabbit)

**11.1.6 Eye contact:**

No data available

**11.1.6 Other:**

Abuse can lead to health-damaging.

## Section 12: Ecological information

**12.1 Ecotoxicity:**

Acute fish toxicity	LC50 (Oncorhynchus mykiss) > 100 mg/l, 96 h
Acute daphnia toxicity	EC50 (Daphnia magna) > 16,9 mg/l, 48 h
Acute algae toxicity	EC50 (Pseudokirchneriella subcapitata) > 100 mg/l, 72 h

**12.2 Mobility:**

No data available

**12.3 Persistence and degradability:**

No data available

**12.4 Bioaccumulative potential:**

No data available

## Section 13: Disposal considerations

**13.1 Disposal:**

Dispose of contents/ container to a licensed hazardous-waste disposal contractor or collection site except for empty, clean containers which can be disposed of as non-hazardous waste.

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.

DO NOT RE-USE CONTAINER for any purpose.

**13.1.1 Waste codes / waste designations according to EWC / AVV:**

020108: agrochemical waste containing dangerous substances

200119: pesticides

## Section 14: Transport information

#### 14.1 Land transport (ADR/RID/GGVSE):

UN-No: 1760  
Class: 8  
Hazard label: 8  
Proper shipping name: CORROSIVE LIQUID, N.O.S. (Chlormequat chloride)  
Packing group: III  
Tunnel restriction code: (E)

#### 14.2 Sea transport (IMDG-Code/GGVSee):

UN-No: 1760  
Class: 8  
Hazard label: 8  
Proper shipping name: CORROSIVE LIQUID, N.O.S. (Chlormequat chloride)  
Packing group: III  
EmS: F-A, S-B  
Marine pollutant: Yes

#### 14.3 Air transport (ICAO-IATA/DGR):

UN-No: 1760  
Class: 8  
Hazard label: 8  
Proper shipping name: CORROSIVE LIQUID, N.O.S. (Chlormequat chloride)  
Packing group: III

### Section 15: Regulatory information

#### 15.1 EU regulations:

Hazard pictograms:

Xn

Hazard statements:

Harmful

R-phrases:

R 22 Harmful if swallowed.

S-phrases:

S 2 Keep out of the reach of children.

S 13 Keep away from food, drink and animal feeding stuffs.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 46 If swallowed, seek medical advice immediately and show this container or label.

Additional regulations:

To avoid risk to man and environment, comply with the instructions for use.



## Section 16: Other information

### 16.1 Hazardous statements with reference to section 3:

H302	Harmful if swallowed.
H312	Harmful in contact with skin.

### 16.2 Other information:

All information is based on our present knowledge and refer to the product in the form ready for use. The information is intended as a guidance for safe handling of the product and does not guarantee a product within the meaning of a technical specification dar. there are no conditions for the use of the product under the control of the manufacturer, the liability for the safe use of the product transferred to the user.

The client is requiring all employees who have contact with the product, learn about the hazards and personal protection measures in accordance with the MSDS.

The sheet was prepared based on the Material Safety Data Sheets of raw materials, as components of the preparation, as well as bibliographic databases and regulations relating to hazardous substances and chemical preparations.

People who are involved in the marketing of the product, according to schools in relation to the procedure, safety and hygiene. The drivers are trained to the corresponding certification in accordance with the requirements of the ADR regulations shall be issued.